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PIERS 1997

Progress in Electromagnetics Research Symposium
January 6-9, 1997

Telecommunications Research Centre
City University of Hong Kong

General Chairperson's Welcome

PIERS Chairperson

Prof. Jin Au Kong
26-305, MIT
Cambridge, MA 02139, USA

PIERS 1997 General Chairperson

Prof. Edward K. N. Yung
Dept. of Electronic Engineering
City University of Hong Kong,
83 Tat Chee Avenue,
Kowloon, Hong Kong.

PIERS 1997 Technical Chairperson

Prof. K. M. Luk
Dept. of Electronic Engineering
City University of Hong Kong,
83 Tat Chee Avenue,
Kowloon, Hong Kong.
Tel: (852) 27887352
Fax: (852) 27887791
E-mail: eekmluk@cityu.edu.hk

PIERS 1997 Technical Co-Chairperson

Prof. Kai Fong Lee
Dept. of Electrical Engineering
University of Missouri-Columbia
349 Engineering Building West
Columbia, Missouri 65211, USA
Tel: (314) 882-6387
Fax: (314) 882-0397
E-mail: lee@ece.missouri.edu

PIERS 1997 Organizing Committee

Prof. K. K. Mei, CityU
Prof. Y. L. Chow, CityU
Prof. C. H. Chan, CityU
Dr. Y. Hwang, CityU
Mr. L. L. Cheng, CityU
Dr. K. F. Tsang, CityU
Dr. K. W. Leung, CityU
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Dr. W. Y. Tam, HKPU
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Dr. Ross D. Murch, HKUST
Dr. Y. T. Chow, CityU
Dr. K. T. Ng, CityU
Dr. Terry C. K. Ng, CityU
Dr. W. H. Lau, CityU

PIERS 1997 Symposium Management
Telecommunications Research Centre
City University of Hong Kong
83 Tat Chee Avenue, Kowloon,
Hong Kong
Tel: (852) 27887105
Fax: (852) 27887189

Web Page:

<http://www.ee.cityu.edu.hk/piers97.html>



The Organizing Committee of PERS 1997 would like to invite you to come to Hong Kong and attend the upcoming Progress in Electromagnetics Research Symposium. The Telecommunications Research Centre, City University of Hong Kong is honored to host this prestigious symposium, the first ever held in the Asia Pacific region. We are especially excited because it will be held in 1997, the historical year in which the sovereignty of Hong Kong will be reverted back to China.

An attractive and informative technical program has been assembled by the Technical Program Committee under the leadership of Prof. K. M. Luk. In accordance with the aim of PERS, the Symposium will provide a venue for engineers and professors of different disciplines in electromagnetics from places all over the world to get acquainted. It will also facilitate a forum for them to present their latest findings and to exchange innovative ideas. It covers a broad spectrum of interests in electromagnetic theory and its applications, including antenna design, microwave components/devices/systems, mobile communications, satellite communications, radio astronomy, radar, microwave imaging, remote sensing, electromagnetic compatibility, composite material, high temperature superconductivity, wave scattering/propagation, optoelectronics, and computational techniques. Over 650 relevant papers have been accepted, approximately half of them submitted by authors from North America and Europe. All papers will be orally presented in 4 days (6-9 January) in 12 parallel sessions in spacious lecture theatres equipped with modern audio-visual equipment in the City University of Hong Kong, right at the urban center of the city.

An equally attractive, entertaining yet affordable social program has also been contrived for attendees and their companies. All registered participants will be invited to the Reception Buffet Dinner and the Banquet at no additional cost. Several local tours will be reserved for our guests who choose to take a closer look of this Pearl of the Orient, a cosmopolitan area of over 6.5 million residents where the East meets the West. Post symposium tours have also been arranged for venturesome visitors to go to Shenzhen, a brand new city of over 3 million inhabitants just north of the border. Please be informed that visitors joining these tours will not need an entry visa into China. Since all social events have limited capacities and we are obliged to operate them on the first-come-first-serve basis. Hence, you are recommended to register early.

Just as all symposia of similar nature, PERS 1997 cannot be successful without the hard work of dedicated committee members and session organizers. May I take this opportunity to thank them for their invaluable contributions. I look forward to seeing all of you at the PERS 1997 in Hong Kong.

Prof. Edward K. N. Yung

PIERS 1997 ORGANIZING COMMITTEE

PIERS Chair :	Prof. J. A. Kong, Massachusetts Institute of Technology
General Chair :	Prof. Edward K. N. Yung, City University of Hong Kong
Technical Program :	Prof. K. M. Luk (Chair), City University of Hong Kong
	Prof. K. F. Lee (Co-Chair), University of Missouri-Columbia
	Prof. A. L. Cullen, University College London
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	Prof. K. K. Mei, City University of Hong Kong
	Prof. Y. L. Chow, City University of Hong Kong
	Prof. C. H. Chan, City University of Hong Kong
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	Dr. Ross D. Murch, Hong Kong Univ. of Science and Technology
	Mr. K. T. Ng, City University of Hong Kong
Publication :	Mr. L. L. Cheng (Chair), City University of Hong Kong
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	Dr. Y. T. Chow, City University of Hong Kong
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Souvenir :	Dr. W. Y. Tam (Chair), Hong Kong Polytechnic University
	Dr. Y. Chen, Hong Kong Polytechnic University
	Dr. W. H. Lau, City University of Hong Kong
Web Page :	Dr. Terry C. K. Ng, City University of Hong Kong
Secretary :	Dr. W. S. Chan, City University of Hong Kong

PIERS 1997 Session Organizers

Masami Akaike	K K Mei
S Alfes	R C McPhedran
Wolfgang M Boerner	A R Mickelson
R G Bosisio	Michio Miyakawa
L C Botten	G B Morgan
H C Chang	Ross Murch
The Nan Chang	H Ogura
Alfred T C Chang	Albert Papiernik
K S Chen	Ting-Chung Poon
W N Cheung	Reinhold Pregla
Philip Cheung	Omar M Ramahi
Weng Cho Chew	D Narayana Rao
K S Chiang	Guy Seguin
M Ciftan	Poman So
Sadao Fujimura	G P Srivastava
Hugh Griffiths	Nizar Sultan
Qizheng Gu	T Taguchi
Zu Han Gu	Mitsuo Tateiba
Wolfgang J R Hoefer	K F Tsang
John Huang	R G Vaughan
Weiping Huang	G Viswanathan
T Itoh	James R Wait
H Kikuchi	Robert Weigel
Henry Lai	Geyi Wen
Ching Ting Lee	Kin-Lu Wong
M S Leong	Doris I Wu
S W Leung	Ke Wu
E Herbert Li	Deming Xu
Le Wei Li	Shanjia Xu
Weigan Lin	Kiyoshi Yasumoto
Ernst L-neburg	W X Zhang

General Information

(Location

The PIERS 1997 will be held in Hong Kong, on the campus of the City University of Hong Kong, January 6 - 9, 1997. Symposium sessions will be held in spacious lecture theatres located on the 4th floor of the Academic Building.

The City University is located at the heart of the city, and if you take a walk around the campus, you will get an excellent view of the Hong Kong skyline. It is next to the Mass Transit Railway (Kowloon Tong Station), which can take you to the Kowloon Peninsula or direct to Hong Kong Island. The University is also next to the Kowloon Canton Railway (Kowloon Tong Station) which can take you up to the New Territories and right to the border with China.



(Hong Kong Weather

Hong Kong has a subtropical climate that brings sunny yet cool and reasonably dry weather during the winter. The symposium will be held in the winter season, which starts in the middle of December and lasts till the end of February, with an average temperature of $15\frac{1}{2}^{\circ}\text{C}$ and a humidity of 75%. Suitable clothing are suits, light woollens and sometimes overcoats, although it has been known that people from the cooler climates still prefer to wear shorts and T-shirts, even swimming in the magnificent beaches.

(Transportation

Local transportation is clean and efficient with the Mass Transit Railway (subway) covering the more densely populated urban areas and the Kowloon Canton Railway which connects to the New Territories, also trams with 70 year history still travel quaintly along Hong Kong island, and its new counterpart, the Light Rail Transit speeding along in New Territories West. Buses are plentiful and taxis can be hailed almost everywhere.

General Information

(Spouses and Companions

Accompanying spouses or companions are welcome to participate in the daytime and evening social events. No spouse or companion registration fee is necessary, but a welcome buffet reception fee of US\$ 30 and a Chinese banquet fee of US\$60 will be requested.

(Restaurants

Restaurants at the City University include a Chinese restaurant, Western restaurant, coffee shop, Wei Hing snack bar, staff canteen and student canteen.

Hong Kong is a culinary delight, its restaurants serve both western and eastern cuisines, with enough to dine on a different country's fare every day. The best of American and European fare can be found in some of the world's grandest hotels. You can also find eateries ranging from British fish and chips to French bistros. From China, there are a myriad of Cantonese *dim sum*, hearty Chiuchow dishes, spicy Szechuen dishes and noodles from Shanghai. From southeast Asia there are Japanese Sushi, Korean barbecues, Malaysian satay, hot Singaporean noodles, spicy Indonesian and Thai cuisine.

(Currency Exchange

The unit of currency is the Hong Kong dollar (HK\$), with denominations of HK\$1,000, HK\$500, HK\$100, HK\$50, HK\$20, HK\$10 notes and HK\$10, HK\$5, HK\$2, HK\$1, HK50¢, HK20¢ and HK10¢ coins. Most foreign currencies and travellers cheques are easily changed at banks, hotels or money changers (the latter usually charge commission).

The current exchange rates are approximately HK\$7.7 to US\$1, HK\$0.071 to ¥1 and HK\$11.8 to £1.

(Session Rooms and Starting Times

Session starting times are 8:50 am for the morning sessions and 1:30 pm for the afternoon sessions. Session rooms are listed in the Technical Program portion of this brochure.

(Refreshment Breaks

For the convenience of symposium participants, morning and afternoon refreshment breaks will be served at the Podium of the Academic Building. Session breaks are twenty minutes long and fall between 10:30 am – 10:50 am and 3:10 pm – 3:30 pm.

(Name Badges

Please wear your name badge at all times. Badges are required for entrance to technical sessions, and the reception buffet dinner.

(No Smoking

Please observe the no smoking policy inside buildings on campus.

(Symposium Proceedings

Additional copies of the PIERS 1997 Proceedings may be purchased from symposium staff at the Registration Desk. Copies are available for US\$40 each.

(Shipping of Proceedings

Each registered participant will receive a copy of the symposium Proceedings. The Proceedings may be either carried away or shipped to any destination. Postage service will be available at the Information Desk.